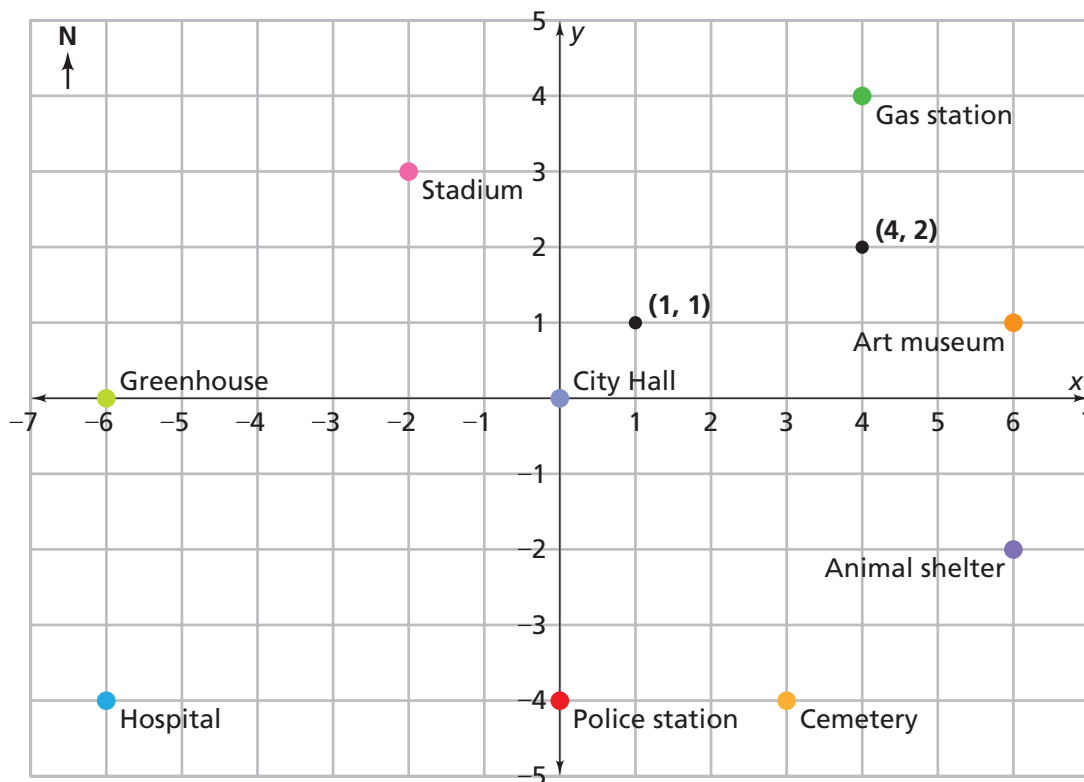


1.2 Planning Parks

The Euclid City Council is developing parks with geometric shapes. For some of the parks, the council gives the park designers constraints. For example, Descartes Park must have a border with vertices $(1, 1)$ and $(4, 2)$.



Problem 1.2 Shapes on a Coordinate Grid

Be prepared to explain your answers.

- Suppose the park is to be a square. What could the coordinates of the other two vertices be? Give two answers.
- Suppose the park is to be a nonsquare rectangle. What could the coordinates of the other two vertices be?
- Suppose the park is to be a right triangle. What could the coordinates of the other vertex be?
- Suppose the park is to be a parallelogram that is not a rectangle. What could the coordinates of the other two vertices be?

ACE Homework starts on page 12.